

U.S. Serial No. 09/843,000  
 Filed: April 26, 2001

### CLAIM AMENDMENTS:

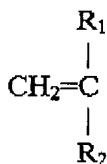
**1. (Currently Amended)** An anhydrous nail enamel composition comprising,  
 by weight of the total composition:

10-95% solvent, and

5-95% of a polymer capable of forming a film on the nail, having a  
 glass transition temperature in the range of 5 to 90° C., obtained by  
 polymerizing at least two different types of monomers wherein one monomer  
 is a nonpolar ethylenically unsaturated monomer selected from the group  
 consisting of:

(a) a monofunctional monomer of the formula:

I.

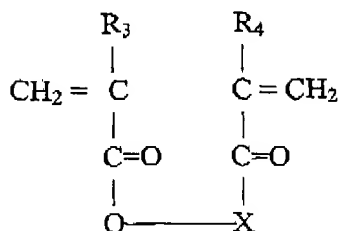


wherein R<sub>1</sub> is a C<sub>1-30</sub> straight or branched chain alkyl, aryl, aralkyl; R<sub>2</sub> is H,  
 CH<sub>3</sub>, a pyrrolidone, or a substituted or unsubstituted aromatic, alicyclic, or  
 bicyclic ring where the substituents are C<sub>1-30</sub> straight or branched chain alkyl,  
 or COOM wherein M is a C<sub>1-30</sub> straight or branched chain alkyl, pyrrolidone,  
 or a substituted or unsubstituted aromatic, alicyclic, or bicyclic ring where the  
 substituents are C<sub>1-30</sub> straight or branched chain alkyl which may be  
 substituted with one or more halogens,

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(b) a difunctional monomer of the formula:

II.

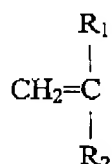


wherein  $\text{R}_3$  and  $\text{R}_4$  are each independently H, a  $\text{C}_{1-30}$  straight or branched chain alkyl, aryl, or aralkyl; and X is  $[(\text{CH}_2)_x\text{O}_y]_z$  wherein x is 3-20, and y is 1, and z is 1-100,

(c) a trifunctional monomer selected from the group consisting of trimethylolpropane trimethacrylate, trimethylolpropane triacrylate, and mixtures thereof; and

(d) and mixtures thereof.

and the other monomer is a polar monomer of the formula:



wherein  $\text{R}_1$  is H, or a  $\text{C}_{1-30}$  straight or branched chain alkyl, aryl, or aralkyl; and  $\text{R}_2$  is COOM wherein M is H;  $(\text{CHR}_1)_n\text{OH}$ ;  $(\text{CH}_2\text{CH}_2\text{O})_n\text{H}$ ;  $(\text{CH}_2)_n\text{NR}_1$ ;  $(\text{CHR}_1\text{CONR}_1\text{H})$  where n is 1-100, and wherein the polar monomer is present at about 2 to 29% by weight of the total polymer; wherein said polymer is substantially free of monomers containing acetoacetoxy moieties.

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2. **(Currently Amended)** The composition of claim 1 wherein the solvent is a glycol ether, an ingredient selected from the group consisting of butyl acetate, ethyl acetate, or mixtures thereof [aqueous].

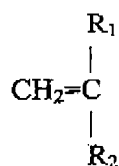
3. **(Currently Amended)** The composition of claim 1 wherein the solvent comprises an ester non-aqueous solvent.

4. **(Original)** The composition of claim 3 wherein the non-aqueous solvent is an aliphatic or aromatic ketone; aliphatic or aromatic alcohol; glycol ether; ester, or mixtures thereof.

5. **(Previously Presented)** The composition of claim 1 wherein the polar monomer is anionically or cationically charged.

6. **(Original)** The composition of claim 5 wherein the polar monomer is anionically charged.

7. **(Original)** The composition of claim 6 wherein the polar monomer has the general formula:

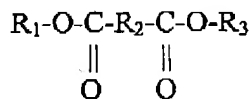


wherein  $R_1$  is H, or a  $C_{1-30}$  straight or branched chain alkyl, aryl, or aralkyl; and  $R_2$  is COOM wherein M is H;  $(CR_1)_nOH$ ;  $(CH_2CH_2O)_nH$ ,  $(CH_2)_nNR_1$ ; where n is 1-100.

8. **(Previously Presented)** The composition of claim 7 wherein  $R_1$  in the polar monomer is H or  $CH_3$ , and  $R_2$  in the polar monomer is COOM wherein M is H.

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- 9. (Original)** The composition of claim 8 wherein the polar monomer is acrylic acid.
- 10. (Original)** The composition of claim 1 further comprising 0.1-30% by weight of the total composition of pigment.
- 11. (Original)** The composition of claim 1 further comprising 0.01-15% by weight of the total composition of a suspending agent.
- 12. (Original)** The composition of claim 11 wherein the suspending agent is a montmorillonite mineral or associative thickener.
- 13. (Original)** The composition of claim 1 further comprising 0.01-10% by weight of the total composition of a silicone glycol copolymer defoaming agent.
- 14. (Original)** The composition of claim 1 further comprising 0.1-35% by weight of the total composition of one or more plasticizers.
- 15. (Original)** The composition of claim 14 wherein the plasticizer comprises a glyceryl, glycol, or citrate ester.
- 16. (Original)** The composition of claim 14 wherein the plasticizers comprises a compound of the general formula:



wherein R<sub>1</sub>, R<sub>2</sub>, and R<sub>3</sub> are each independently a C<sub>1-20</sub> straight or branched chain alkyl or alkylene which may be substituted with one or more hydroxyl groups.

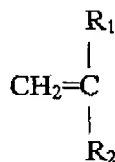
- 17. (Previously Presented)** A two container kit for polishing nails comprising:

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(a) a first container containing a nail enamel composition comprising, by weight of the total composition:

10-95% solvent, and

5-95% of a film forming polymer having a glass transition temperature in the range of 5 to 90° C. obtained by polymerizing at least two different types of monomers wherein one monomer is a nonpolar ethylenically unsaturated monomer and the other monomer is a polar monomer of the formula:



wherein R<sub>1</sub> is H, or a C<sub>1-30</sub> straight or branched chain alkyl, aryl, or aralkyl;

and R<sub>2</sub> is COOM wherein M is H; (CHR)<sub>n</sub>OH; (CH<sub>2</sub>CH<sub>2</sub>O)<sub>n</sub>H; (CH<sub>2</sub>)<sub>n</sub>NR<sub>1</sub>; (CHR<sub>1</sub>CONR<sub>1</sub>H) where n is 1-100,

and wherein the polar monomer is present at about 2 to 29% by weight of the total polymer; wherein said polymer is free of monomers containing acetoacetoxy moieties; and

(b) a second container containing a nail enamel topcoat composition comprising, by weight of the total topcoat composition:

1-99% solvent, and

1-99% of a film forming polymer.

**18. (Previously Presented)** The kit of claim 17 wherein the film forming polymer in the second container comprises a cellulosic based film former.

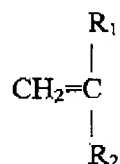
**19. (Previously Presented)** A method for polishing the nails comprising:

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(a) applying to the nails a first composition comprising, by weight of the total composition:

10-95% solvent, and

5-95% of a film forming polymer having a glass transition temperature in the range of 5 to 90° C. obtained by polymerizing at least two different types of monomers wherein one monomer is a nonpolar ethylenically unsaturated monomer and the other monomer is a polar monomer of the formula:



wherein  $R_1$  is H, or a  $C_{1-30}$  straight or branched chain alkyl, aryl, or aralkyl; and  $R_2$  is COOM wherein M is H;  $(CHR)_nOH$ ;  $(CH_2CH_2O)_nH$ ;  $(CH_2)_nNR_1$ ;  $(CHR_1CONR_1H)$  where n is 1-100,

and wherein the polar monomer is present at about 2 to 29% by weight of the total polymer; and wherein said polymer is free of monomers containing acetoacetoxy moieties; and

(b) applying to the nails a second composition comprising, by weight of the total composition:

1-99% solvent, and

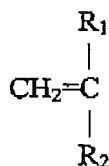
1-99% of a film forming polymer;

wherein the dried film formed by (a) and (b) resides on the nails for five to ten days.

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**20. Cancelled.**

**21. (Previously Presented)** The composition of claim 1 wherein the ethylenically unsaturated nonpolar monomer is a monofunctional monomer having the formula:



wherein  $R_1$  a  $C_{1-30}$  straight or branched chain alkyl,  $R_2$  is H,  $CH_3$ , a pyrrolidone, or a substituted or unsubstituted aromatic, alicyclic, or bicyclic ring where the substituents are  $C_{1-30}$  straight or branched chain alkyl, or COOM wherein M is a  $C_{1-30}$  straight or branched chain alkyl, pyrrolidone, or a substituted or unsubstituted aromatic, alicyclic, or bicyclic ring where the substituents are  $C_{1-30}$  straight or branched chain alkyl which may be substituted with one or more halogens.

**22. (Previously Presented)** The composition of claim 21 wherein  $R_1$  in the nonpolar monomer a  $C_{1-30}$  straight or branched chain alkyl, and  $R_2$  in the nonpolar monomer is COOM wherein M is a  $C_{1-30}$  straight or branched chain alkyl.

**23. (Previously Presented)** The composition of claim 22 wherein  $R_1$  in the nonpolar monomer is methyl and  $R_2$  in the nonpolar monomer is COOM wherein M is a  $C_{1-4}$  alkyl.

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- 24. (Previously Presented)** The composition of claim 23 wherein  $R_1$  is methyl and  $R_2$  is COOM wherein M is butyl and the monomer is butyl methacrylate.
- 25. (Previously Presented)** The composition of claim 24 wherein the polar monomer  $R_1$  is H or methyl, and  $R_2$  is COOM wherein M is H.
- 26. (Previously Presented)** The composition of claim 24 wherein the polar monomer is acrylic acid or methacrylic acid.
- 27. (Previously Presented)** The composition of claim 1 wherein the polymer consists of a nonpolar monomer which is butyl methacrylate and a polar monomer which is acrylic acid and the acrylic acid is present at about 2-29% by weight of the total polymer.
- 28. (Previously Presented)** A nail enamel composition comprising, by weight of the total composition:
- 10-95% solvent, and
  - 5-95% of a copolymer capable of forming a film on the nail, having a glass transition temperature in the range of 5 to 90° C., and consisting of butyl methacrylate copolymerized with a polar monomer selected from the group consisting of acrylic acid, methacrylic acid, and mixtures thereof.
- 29. (Previously Presented)** The composition of claim 28 wherein the copolymer consists of 2-29% by weight of the total copolymer of acrylic acid, with the remainder of the copolymer being butyl methacrylate.



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**30. (Previously Presented)** The composition of claim 28 wherein the copolymer consists of 2-29% by weight of the total polymer of methacrylic acid, with the remainder of the copolymer being butyl methacrylate.

**31. (Currently Amended)** An anhydrous nail enamel composition comprising, by weight of the total composition:

10-95% solvent, and

5-95% of a copolymer capable of forming a film on the nail, having a glass transition temperature in the range of 5 to 90° C., and consisting of methyl methacrylate polymerized with a polar monomer selected from the group consisting of acrylic acid, methacrylic acid, and mixtures thereof.

**32. (Previously Presented)** The nail enamel composition of claim 31 wherein the copolymer consists of 2-29% by weight of the total polymer of acrylic acid, with the remainder of the copolymer being methyl methacrylate.

**33. (Currently Amended)** An anhydrous nail enamel composition comprising, by weight of the total composition:

10-95% solvent, and

5-95% of a copolymer capable of forming a film on the nail, having a glass transition temperature in the range of 5 to 90° C., and consisting of a nonpolar monomer selected from the group consisting of methyl methacrylate, butyl methacrylate, and mixtures thereof; polymerized with a polar monomer selected from the group consisting of acrylic acid, methacrylic acid, and mixtures thereof.

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**34. (Previously Presented)** The composition of claim 33 wherein the copolymer consists of 2-29% of a polar monomer selected from the group consisting of acrylic acid, methacrylic acid, and mixtures thereof, with the remainder of the copolymer being a nonpolar monomer selected from the group consisting of butyl methacrylate, methyl methacrylate, and mixtures thereof.

**35. (Previously Presented)** A method for polishing the nails comprising:

(a) applying to the nails a first composition comprising, by weight of the total composition:

10-95% solvent, and

5-95% of a film forming polymer having a glass transition temperature in the range of 5 to 90° C., and consisting of a nonpolar monomer selected from the group consisting of methyl methacrylate, butyl methacrylate, and mixtures thereof; copolymerized with a polar monomer selected from the group consisting of acrylic acid, methacrylic acid, and mixtures thereof.

(b) applying to the nails a second composition comprising, by weight of the total composition:

1-99% solvent, and

1-99% of a cellulose film forming polymer; wherein the dried film formed by (a) and (b) resides on the nails for five to ten days.

**36. (Previously Presented)** The method of claim 35 wherein the cellulose film forming polymer comprises nitrocellulose.